

CS54ZB Category 7 F/FTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1640 ft (500 m) length, reel

Product Classification

Regional Availability	EMEA
Portfolio	NETCONNECT®
Product Type	Twisted pair cable

General Specifications

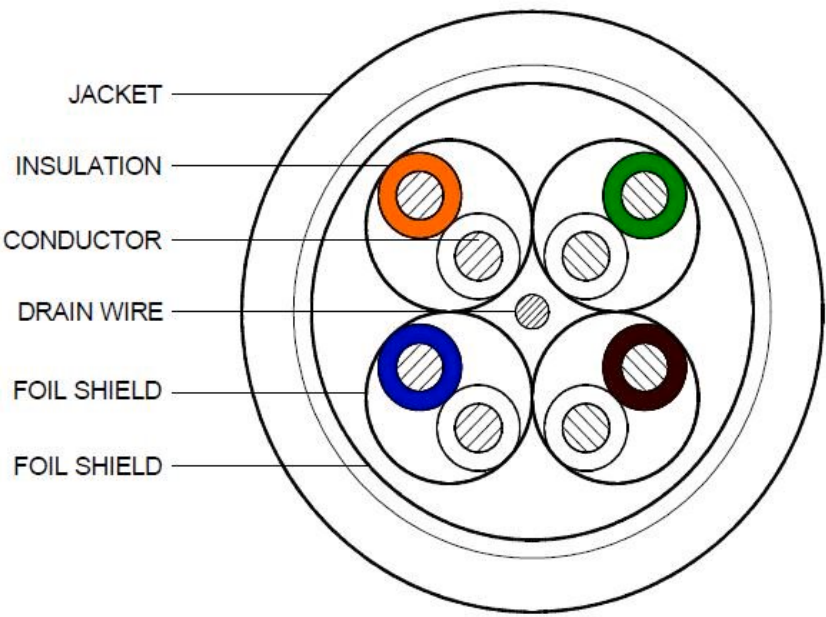
Product Number	CS54ZB
ANSI/TIA Category	7
Cable Component Type	Horizontal
Cable Type	F/FTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	White
Note	All electrical transmission tests include swept frequency measurements
Pairs, quantity	4
Transmission Standards	CENELEC EN 50288-4-1 IEC 61156-5 Cat 7 ISO/IEC 11801 Class F

Dimensions

Cable Length	500 m 1640.42 ft
Cable Length Tolerance	±5%
Diameter Over Jacket, nominal	7.399 mm 0.2913 in
Jacket Thickness	0.635 mm 0.025 in

Conductor Gauge, singles23 AWG

Cross Section Drawing



Electrical Specifications

Coupling Attenuation	Type Ib
dc Resistance Unbalance, maximum	2 %
dc Resistance, maximum	7.61 ohms/100 m 2.32 ohms/100 ft
Mutual Capacitance at Frequency	4.2 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	80 %
Operating Frequency, maximum	600 MHz
Operating Voltage, maximum	80 V
Segregation Class	d
Transfer Impedance	Grade 2

Electrical Performance

CS CommScope value	IL Insertion Loss (dB/100m)	ACR Attenuation to Crosstalk Ratio (dB/100m)
Std Standard value (listed under the Transmission Standards in the Electrical Specifications above)	RL Return Loss (dB)	ACRF Attenuation to Crosstalk Ratio - Far End (dB/100m)
Typ Typical value	NEXT Near End Crosstalk (dB/100m)	PSACR Power Sum Attenuation to Crosstalk Ratio (dB/100m)
	PSNEXT Power Sum Near End Crosstalk (dB/100m)	PSACRF Insertion Loss (dB/100m)

FREQUENCY	IL TYP	IL CS	IL STD	NEXT TYP	NEXT CS	NEXT STD	ACR TYP	ACR CS	ACR STD	PSNEXT TYP	PSNEXT CS	PSNEXT STD	PSACR TYP	PSACR CS	PSACR STD	ACRF TYP	ACRF CS	ACRF STD	PSACRF TYP	PSACRF CS	PSACRF STD	RL TYP	RL CS	RL STD
1.00 MHz			2			78						75						78			75			20
4.00 MHz			3.7			78						75						78			75			23
8.00 MHz			5.2			78						75						77.2			74.2			24.5
10.00 MHz			5.9			78						75						75.3			72.3			25
16.00 MHz			7.4			78						75						71.2			68.2			25
20.00 MHz			8.3			78						75						69.3			66.3			25
25.00 MHz			9.3			78						75						67.3			64.3			24.3
31.25 MHz			10.4			78						75						65.4			62.4			23.6
62.50 MHz			14.9			75.5						72.5						59.4			56.4			21.5
100.00 MHz			19			72.4						69.4						55.3			52.3			20.1
155.00 MHz			24			69.5						66.5						51.5			48.5			18.8
200.00 MHz			27.5			67.9						64.9						49.3			46.3			18
250.00 MHz			31			66.4						63.4						47.3			44.3			17.3
300.00 MHz			34.2			65.2						62.2						45.8			42.8			17.3
350.00 MHz			37.2			64.2						61.2						44.4			41.4			17.3
400.00 MHz			40			63.4						60.4						43.3			40.3			17.3
500.00 MHz			45.3			61.9						58.9						41.3			38.3			17.3
550.00 MHz			47.7			61.3						58.3						40.5			37.5			17.3
600.00 MHz			50.1			60.7						57.7						39.7			36.7			17.3
650.00 MHz			52.4			60.2						57.2						39			36			17.3

Material Specifications

Conductor Material	Bare copper
Insulation Material	Polyolefin
Jacket Material	Low Smoke Zero Halogen (LSZH)
Separator Material	Polyolefin
Shield (Braid) Material	Tinned copper
Shield (Tape) Material	Polyester/Aluminum shield

Mechanical Specifications

Pulling Tension, maximum	11.34 kg 25 lb
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Environmental Specifications

Installation temperature	0 °C to +50 °C (+32 °F to +122 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Acid Gas Test Method	EN 60754-2
EN50575 CPR Cable EuroClass Fire Performance	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Low Smoke Zero Halogen (LSZH)
Smoke Test Method	IEC 61034-2

Packaging and Weights

Cable weight	52.011 kg/km 34.95 lb/kft
Packaging Type	Reel

Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant

UK-ROHS

Compliant

